



EXPLORATION CLINICIAN WORKING GROUP

NASA Human Research Program
Investigators Workshop
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Overview



- Why is this group necessary?
- Membership and structure
- Information exchange



Element Scientist Purview



Assessment, prioritization and technical
direction for the Exploration Medical
Capabilities Element



Hyperbaric
Medicine

Internal
Medicine

Ethics

Critical
Care

Behavioral
Health

Engineering

General
Surgery

Pharmacy

Element Scientist

Audiology

Nursing

Pathology

Ultrasound

Aerospace
Medicine

PM&R

Wilderness
Medicine

Family
Practice



ECWG Tasks



- Create a forum for discussion
- Provide written technical direction to projects; archive
- SE&I Interface



Membership / Structure



- Multidisciplinary
 - Physician (Ops or research), Pharmacy, Nursing, Engineering
- Meeting 1-2 times/month and as needed
- Agenda driven by priorities set by Element Scientist



Feedback



Clinician inputs are personal,
professional opinions based upon clinical
and operational expertise

Collected via:

- Informal face to face
- Electronic surveys – anonymized



Feedback

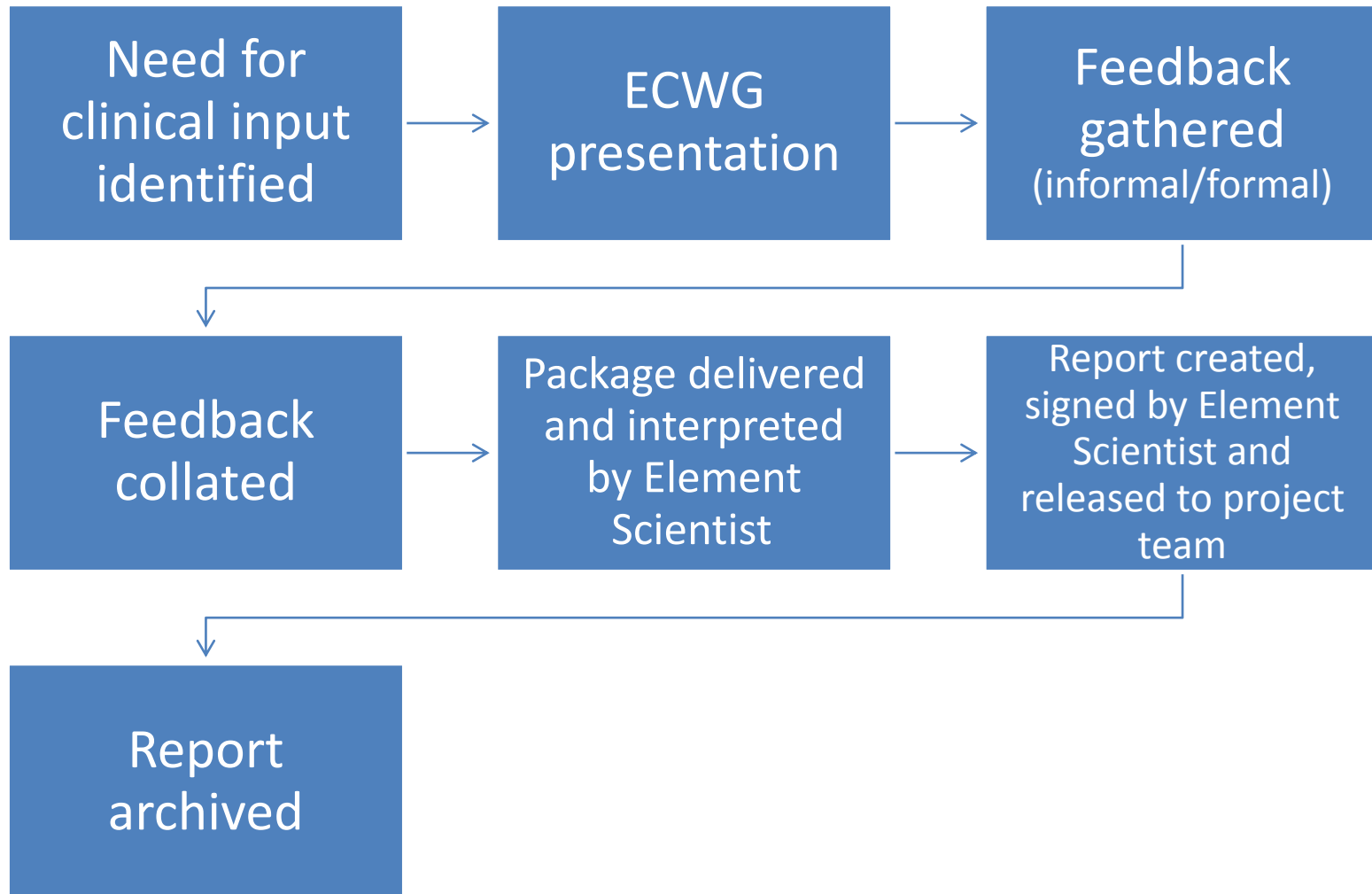


Clinician Inputs are NOT:

- formal positions of other groups/orgs
- endorsement or approval for a project



Formal ECWG Feedback





ELA Example



- Seeking traceable clinical position on the list of proposed analytes for exploration class missions-
 - ID missing or unnecessary analytes
 - Provide guidance on prioritization of analytes
- Feedback from Element will be used to help prioritize and tailor work in the face of potential impacts to funding over time

ExMC Clinician Working Group (ECWG) Request & Summary Report

Date of Report: 24 Oct 2016

Title of Project requesting Element clinical position: Exploration Lab Analysis (ELA), GRC

Summary of Request: ELA is requesting a traceable clinical position on the list of proposed analytes for exploration class missions, identify missing and/or unnecessary analytes and provide guidance on prioritization of the analytes. Feedback from the Element will be used to help prioritize and tailor work in the face of potential impacts to funding over time.

Element Technical Position:

Prioritized laboratory values for the Element are grouped into required and desired categories.

Required Laboratory Assays: Sodium/Potassium/Creatinine/Glucose, White Blood Cell Count, Hemoglobin AND/OR Hematocrit, Platelets, Abs neutrophil, Abs lymphocyte, Urinalysis, ALT/ALP.

Desired Laboratory Assays (In Order of Preference): BUN, AST, CBC differential, Troponin, Lactate, TSH, T. bili, D. bili, Lipase, blood gases, CK, PT/PTT, culture capability.

Ideal sample collection – capillary stick.

Acceptable sample collection – venous blood draw.

Element Scientist Signature _____



Date: 11/10/2016 _____



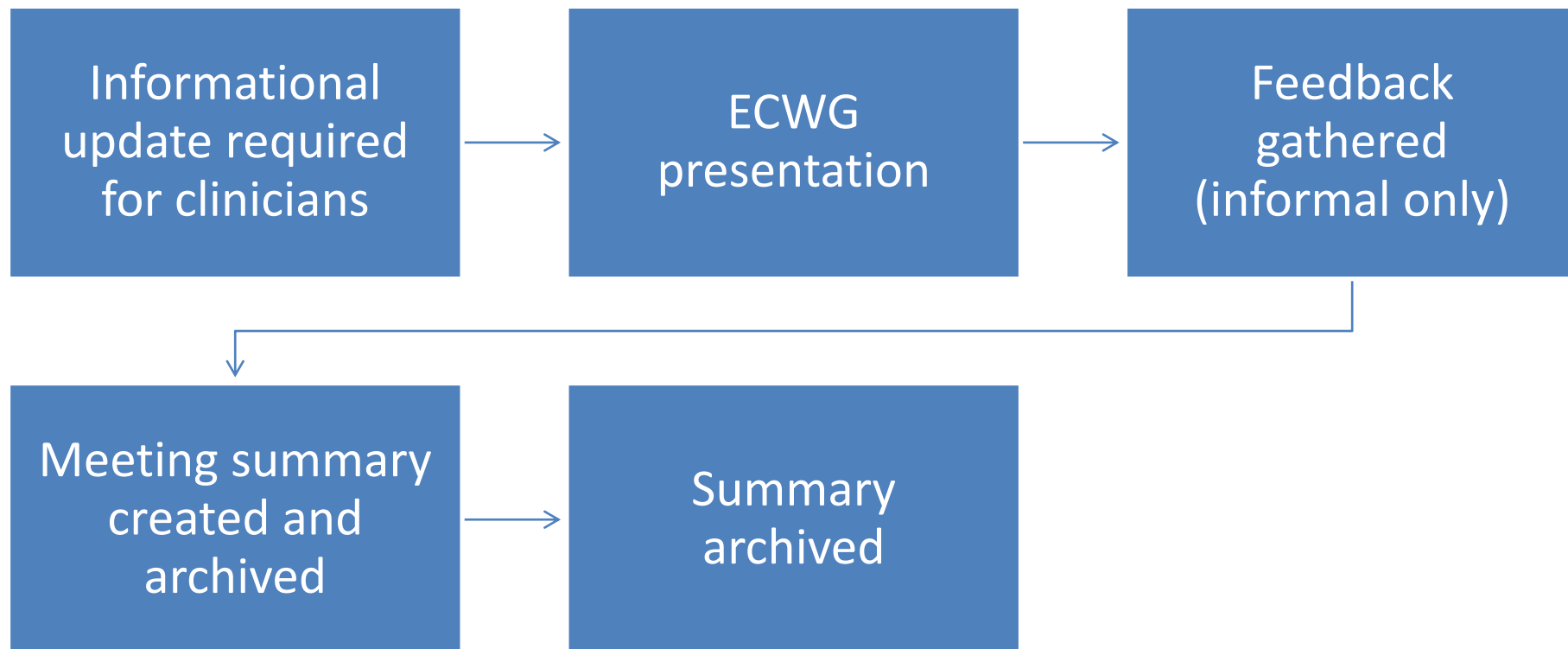
ECWG Report Components



- Element Technical Position
- Methods
- Appendix
 - Results of surveys, collated informal feedback summaries
 - Survey Histograms
 - Participants in information gathering exercises
 - Element Scientist notes (if needed)



Informal ECWG feedback





Gap 14 Example



Informational briefing on new Gap

- Informal conversation intra/post presentation informs clinicians of direction for the Element in defining a new gap
- Provides opportunity for Element Scientist to hear from clinician stakeholders if there are clinical concerns or potential pitfalls identified



What if my project needs more?



If clinician need is greater than what can be obtained in one presentation,

- Talk with Element Scientist about needs
- Can assign a clinician to your project for more intensive feedback as an adjunct to the ECWG



Summary



ECWG Role

- Clinical advisor to Element Scientist

ECWG Purpose

- Help inform technology and system ‘medical usefulness’
- Provide direct interface with SE&I teams